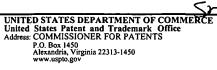


UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/653,248 09/03/2003		09/03/2003	Yuichi Hosoi	Q77278	2777	
23373	7590	08/24/2005		EXAMINER		
SUGHRUI		•	MALEVIC, DJURA			
SUITE 800	SILVA	NIA AVENUE, N	ART UNIT	PAPER NUMBER		
WASHING	TON, D	C 20037	2878			
			DATE MAILED: 08/24/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
		10/653,24	18	HOSOI ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Djura Mal		2878				
Period fo	The MAILING DATE of this communica or Reply	tion appears on the	cover sheet with the	correspondence ad	dress			
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA assions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the period for reply specified above is less than thirty (30) of the period for reply is specified above, the maximum statute or the tore reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no evertication. ays, a reply within the state or period will apply and with the state or period will apply and with the state or period will apply and with the specific austral with the specific au	ent, however, may a reply be tinutory minimum of thirty (30) da Il expire SIX (6) MONTHS from lication to become ABANDONE	mely filed ys will be considered timely in the mailing date of this co				
Status								
1)⊠	Responsive to communication(s) filed	on <u>03 September 2</u>	<u>2003</u> .					
2a) <u></u> □	This action is FINAL . 2b)		on-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-6</u> is/are pending in the appli 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) <u>1-3</u> is/are rejected. Claim(s) <u>4-6</u> is/are objected to. Claim(s) are subject to restriction	withdrawn from co						
Applicat	ion Papers							
10)⊠	The specification is objected to by the EThe drawing(s) filed on 9/3/2003 is/are: Applicant may not request that any objection Replacement drawing sheet(s) including the the oath or declaration is objected to be	a)⊠ accepted or on to the drawing(s) be e correction is requir	e held in abeyance. Se ed if the drawing(s) is ob	ee 37 CFR 1.85(a). Djected to. See 37 CF	, ,			
Priority ι	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the Internationa	cuments have bee cuments have bee the priority docume I Bureau (PCT Rul	n received. n received in Applicat ents have been receiv e 17.2(a)).	tion No red in this National	Stage			
Attachmen	• •							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO	048)	4) Interview Summary Paper No(s)/Mail D					
3) 🔯 Infor	nation Disclosure Statement(s) (PTO-1449 or PT or No(s)/Mail Date 9/3/2003.		5) Notice of Informal I		O-152)			

Application/Control Number: 10/653,248 Page 2

Art Unit: 2878

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: The specification has a couple inadvertent grammatical mistakes.

Paragraph 11, line 5, "th" must be replaced with "the";

Paragraph 50, line 13, "101E" must be replaced with "100E";

Paragraph 50, line 15, "5B" must be replaced with "5E".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the phrase "adapted for "renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2878

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1 - 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leblans et al. (US Pub 2004/0051438).

Regarding claims 1 and 2, Leblans discloses a radiation image storage panel (Fig. 3), comprising a stimulable phosphor layer 1 capable of emitting light when being exposed to stimulating rays, which cause the stimulable phosphor layer to emit light in proportion to an amount of energy stored on the stimulable phosphor layer during radiation [0025]. Furthermore, Leblans also discloses a flattening process in which Lablans flattens the surface of the light radiating side of the phosphor to a predetermined even layer [0074].

Leblans does not expressly disclose that the stimulable phosphor is modified for radiating out the emitted light with an intensity distribution that is compressed in the direction, normal to the surface of the stimulable phosphor layer. However, it is appreciated and obvious to a person of ordinary skill in the art that to flatten the stimulable phosphor by means of polishing, would in fact, compress the radiated intensity distribution in the direction, normal to the phosphor layer and into an oblate distribution, which is flatter than the $COS \theta$ distribution.

Application/Control Number: 10/653,248 Page 4

Art Unit: 2878

Regarding claim 3, Lablans discloses the flattening process is polishing the surface of the stimulable phosphor layer on the light radiation side thereby flattening the stimulable phosphor [0074,0103].

Allowable Subject Matter

5. Claims 4 - 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 4, the prior art of record does not teach or suggest a radiation image storage panel wherein the flattening process for the surface of the stimulable phosphor layer is filled with a material exhibiting a refractive index larger than 1, into depressed regions of the surface thereby flattening the stimulable phosphor layer. Although, references like Joly et al. (US Pub. 2003/0168611 A1) teaches a binderless stimulable phosphor screen comprising a phosphor layer, wherein the vapor deposited phosphor is needle-shaped with voids between the needles, in which the voids are partially filled with a polymeric compound. However, Joly only suggest partially filling the voids not completely filling the voids thereby not flattening the stimulable phosphor layer.

Claims 5 and 6 are allowed based on there dependencies.

Conclusion

Art Unit: 2878

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Djura Malevic whose telephone number is (571) 272-5975. The examiner can normally be reached on Monday – Friday between 8:30am – 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Djura Malevic

Patent Examiner

Art Unit 2878

571.272.5975

DAVID PORTA

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800